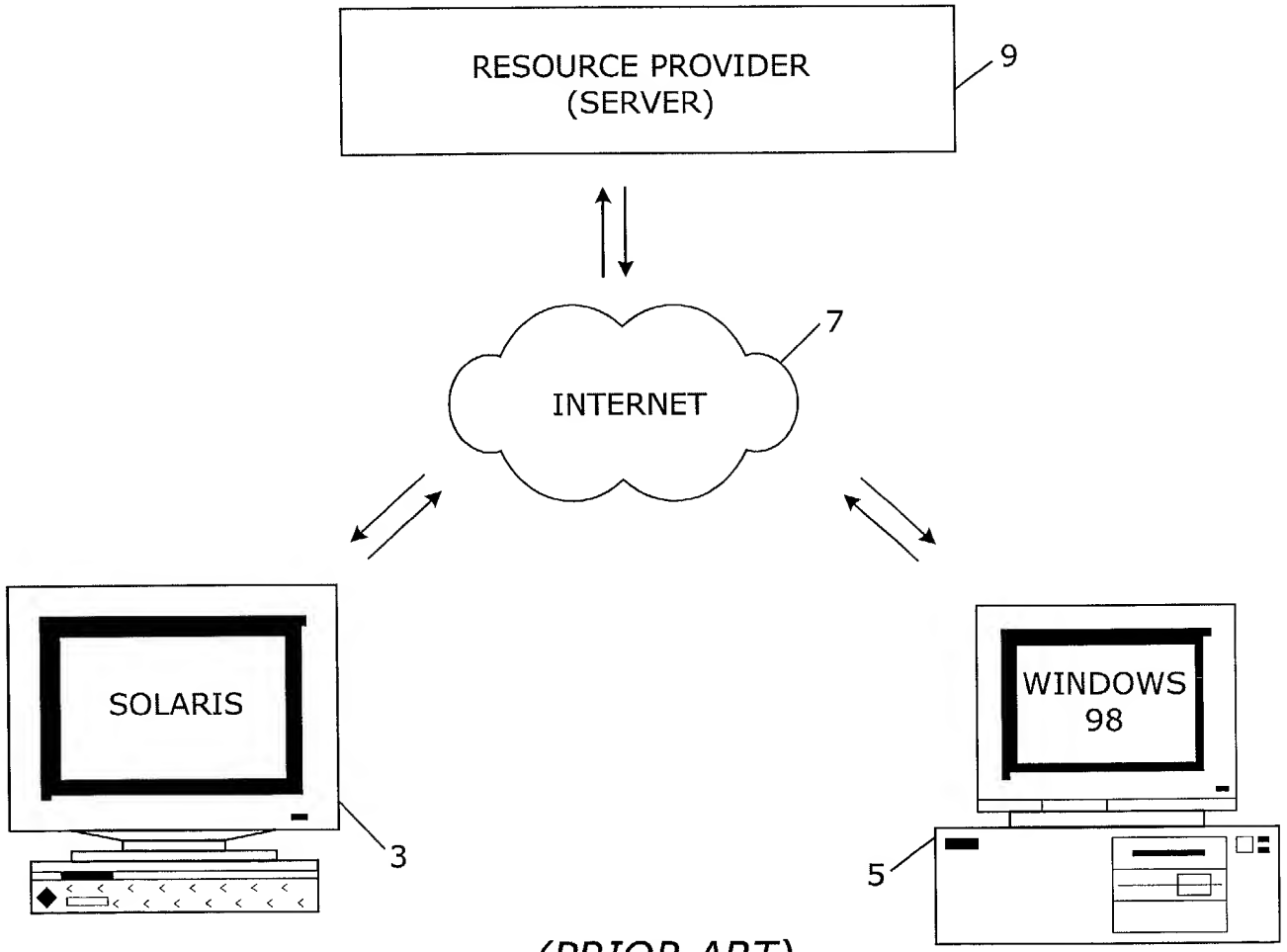
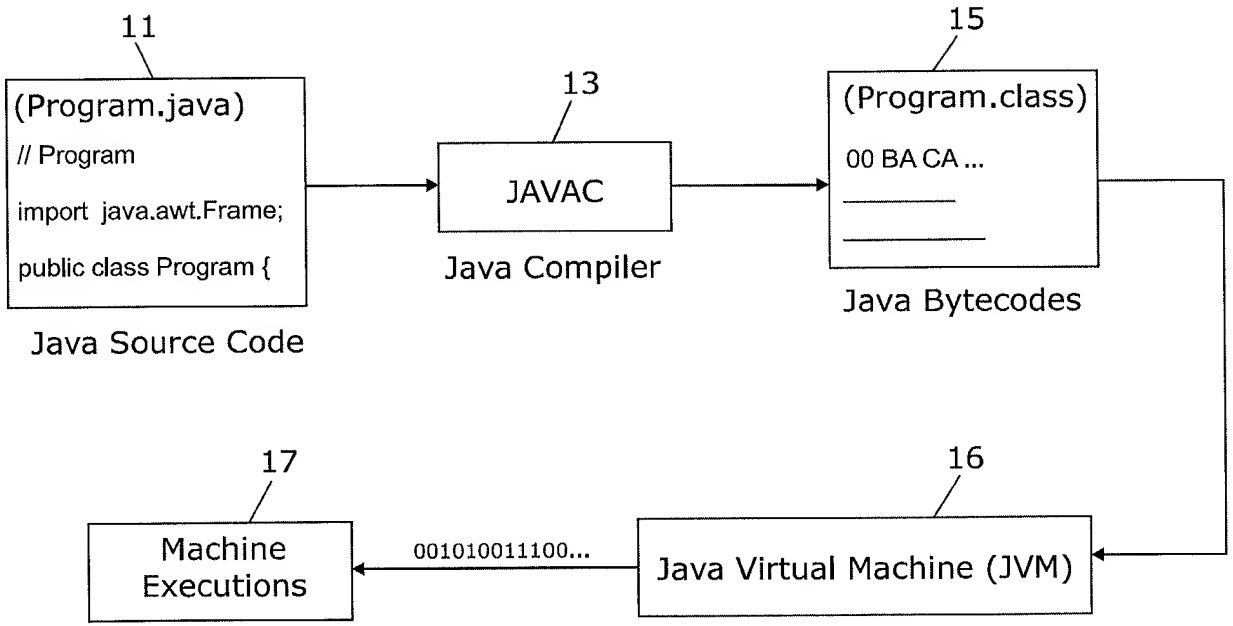
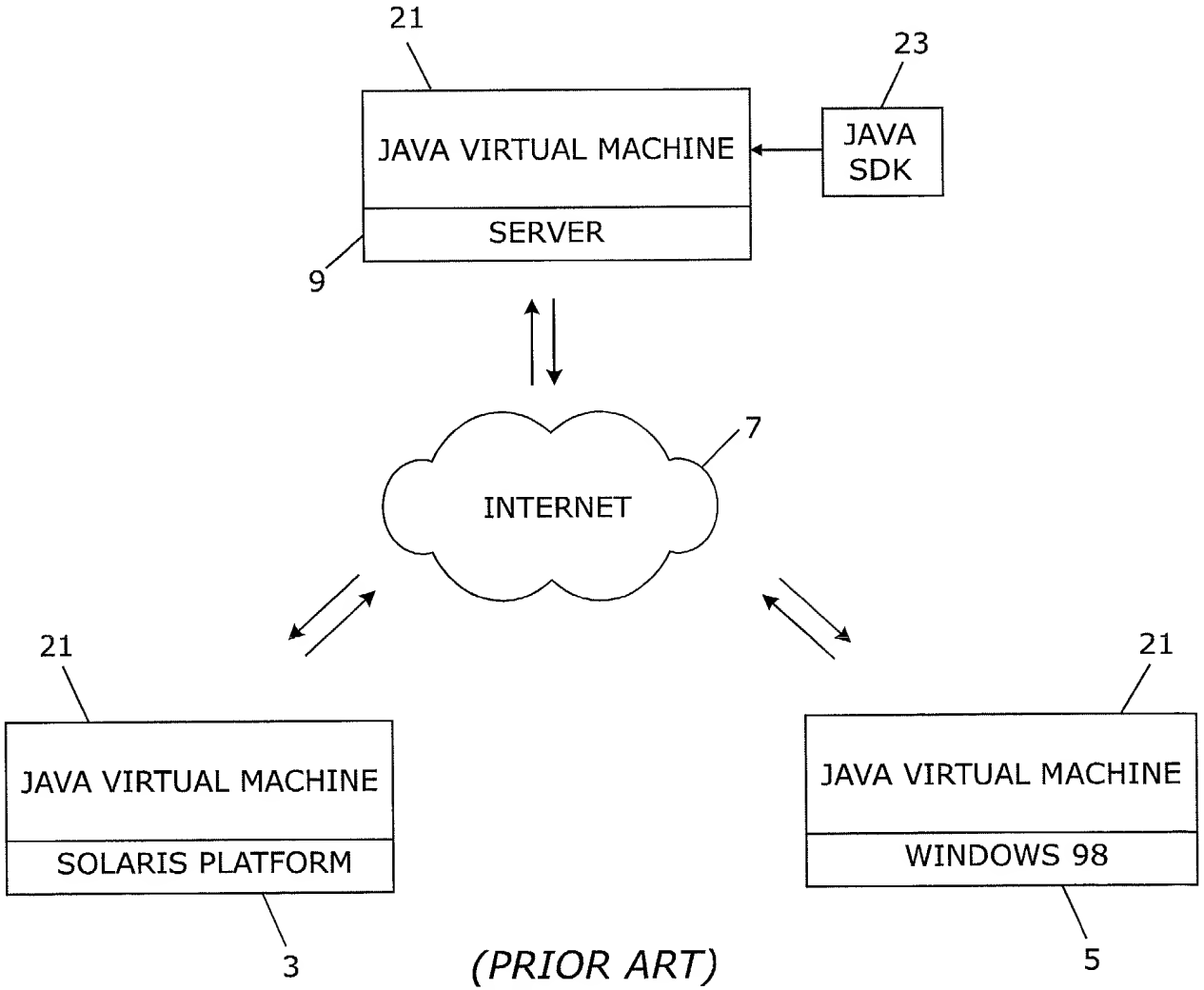


(PRIOR ART)
FIGURE 1



(PRIOR ART)
FIGURE 2



(PRIOR ART)
FIGURE 3

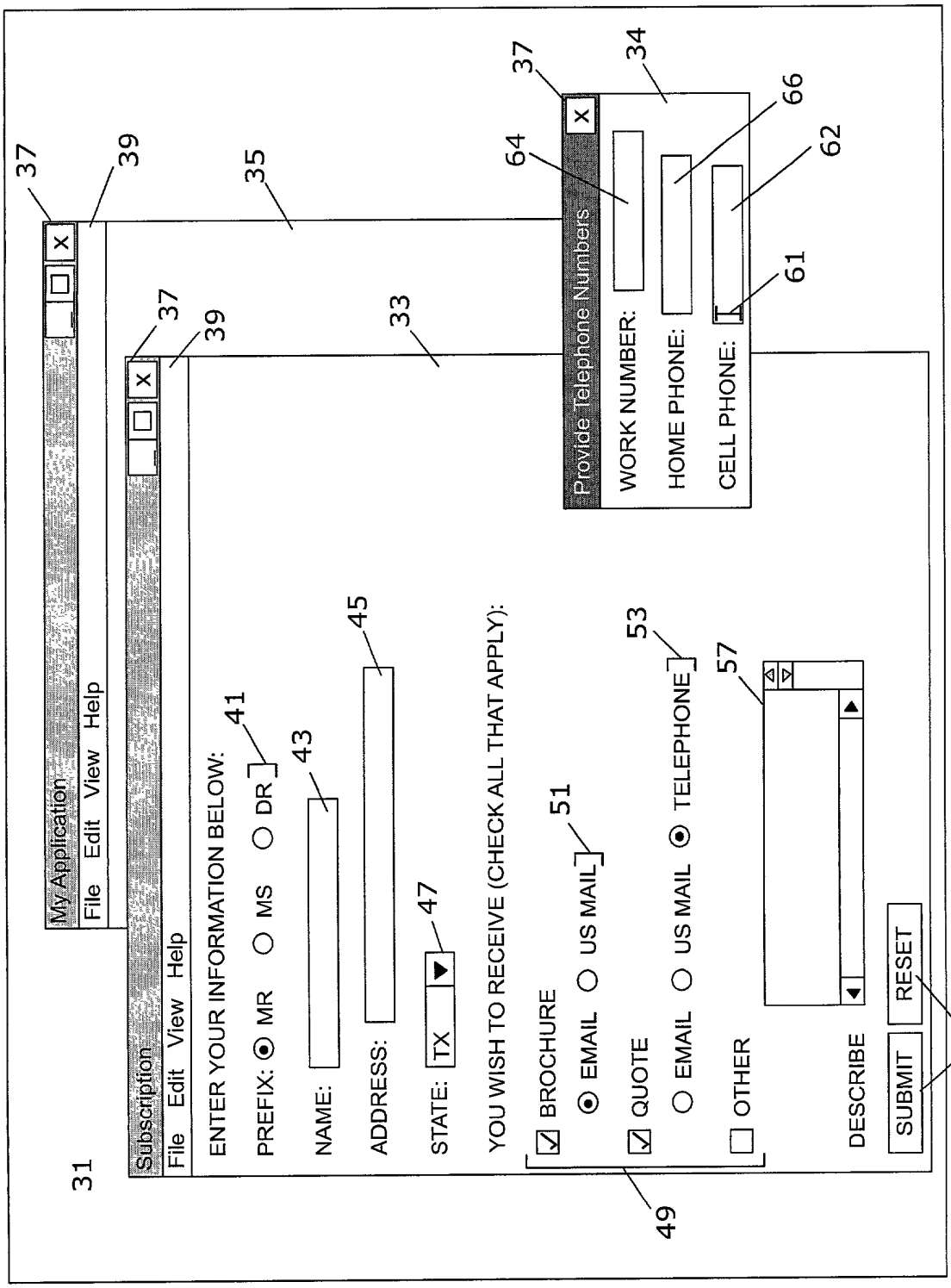


FIGURE 4 (PRIOR ART)

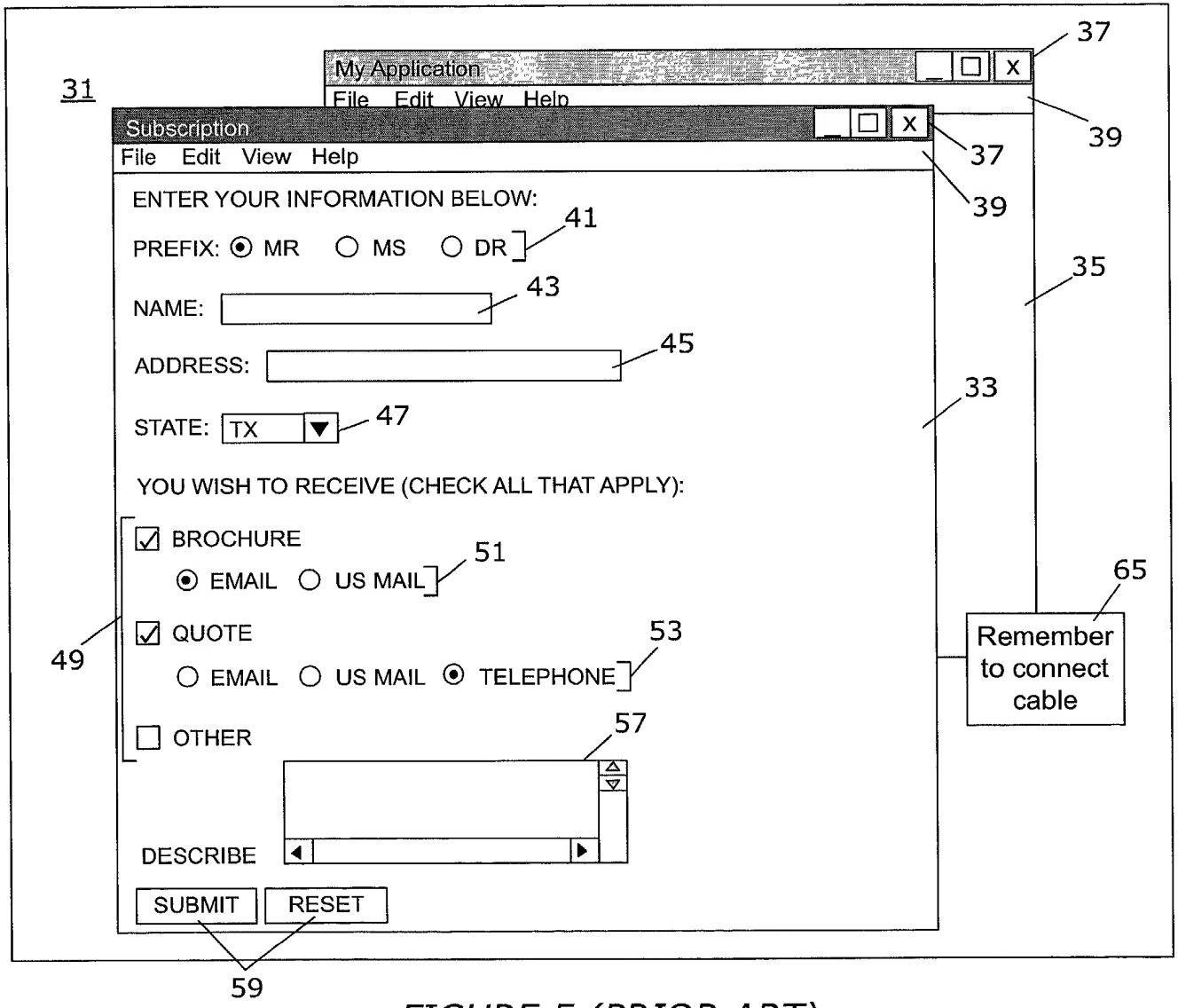


FIGURE 5 (PRIOR ART)

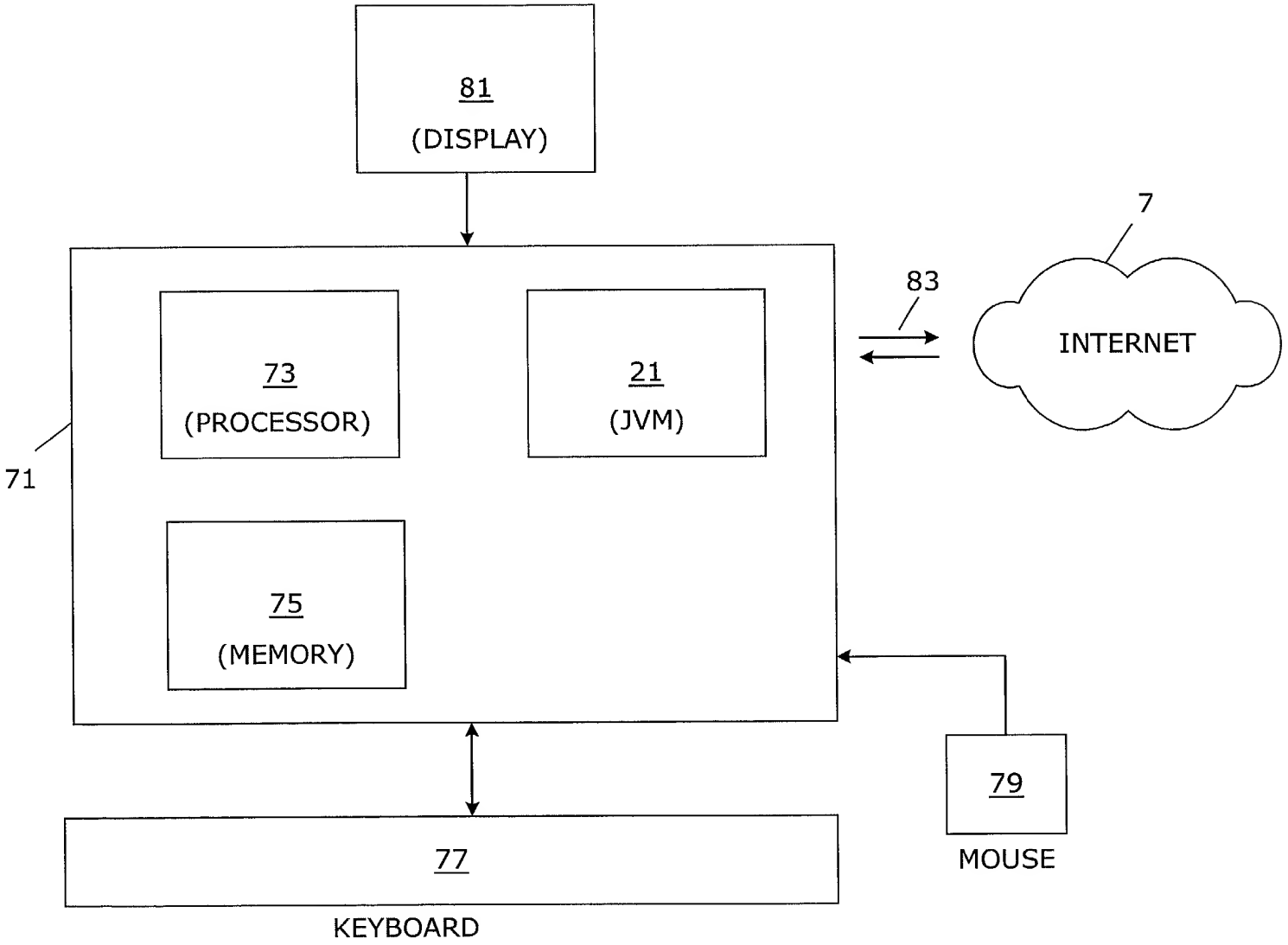

81
(DISPLAY)
7
83
INTERNET
73
(PROCESSOR)
21
(JVM)
71
75
(MEMORY)
79
MOUSE
77
KEYBOARD

FIGURE 6

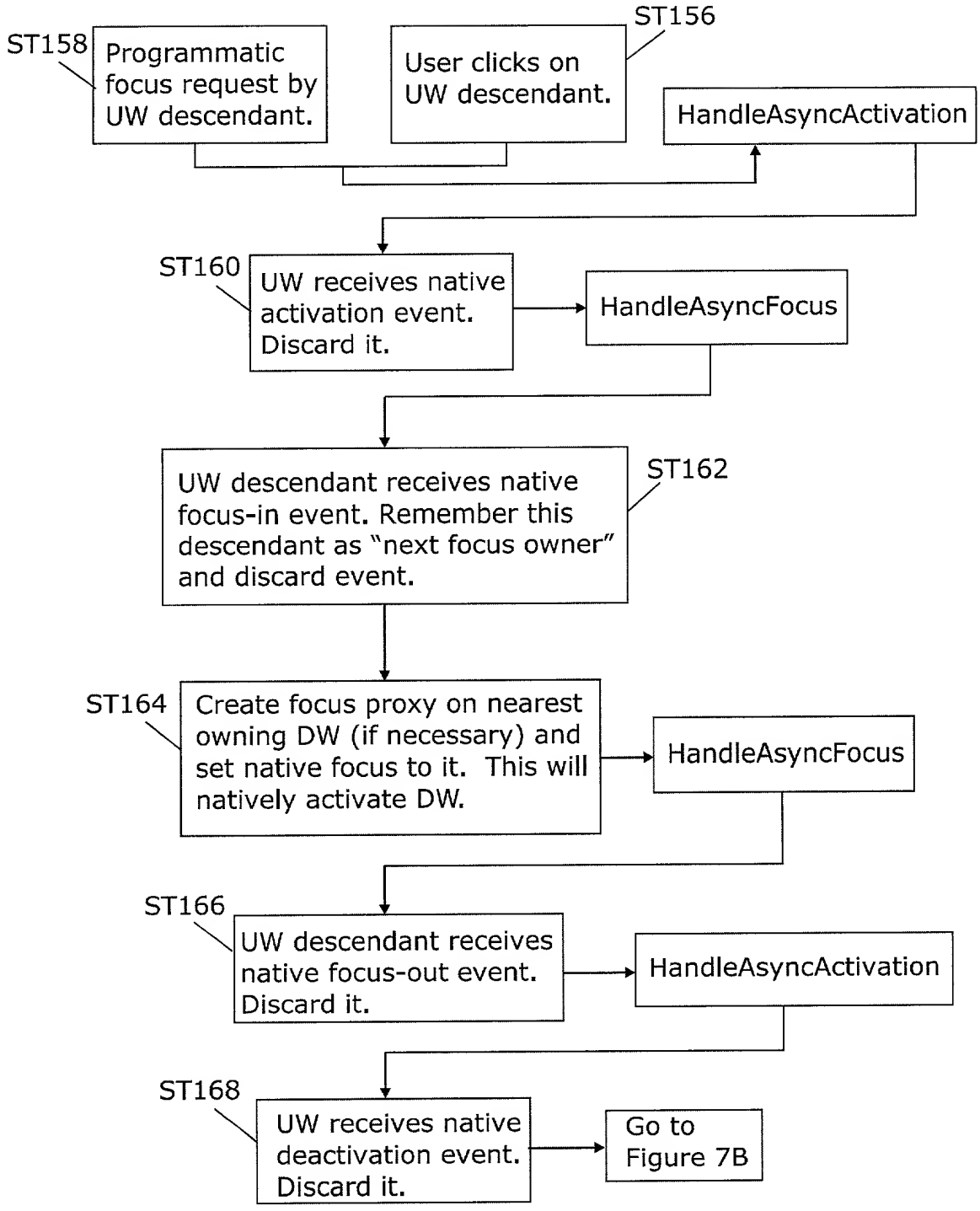

ST158
Programmatic focus request by UW descendant.
ST156
User clicks on UW descendant.
HandleAsyncActivation
ST160
UW receives native activation event. Discard it.
HandleAsyncFocus
UW descendant receives native focus-in event. Remember this descendant as "next focus owner" and discard event.
ST162
ST164
Create focus proxy on nearest owning DW (if necessary) and set native focus to it. This will natively activate DW.
HandleAsyncFocus
ST166
UW descendant receives native focus-out event. Discard it.
HandleAsyncActivation
ST168
UW receives native deactivation event. Discard it.
Go to Figure 7B

FIGURE 7A

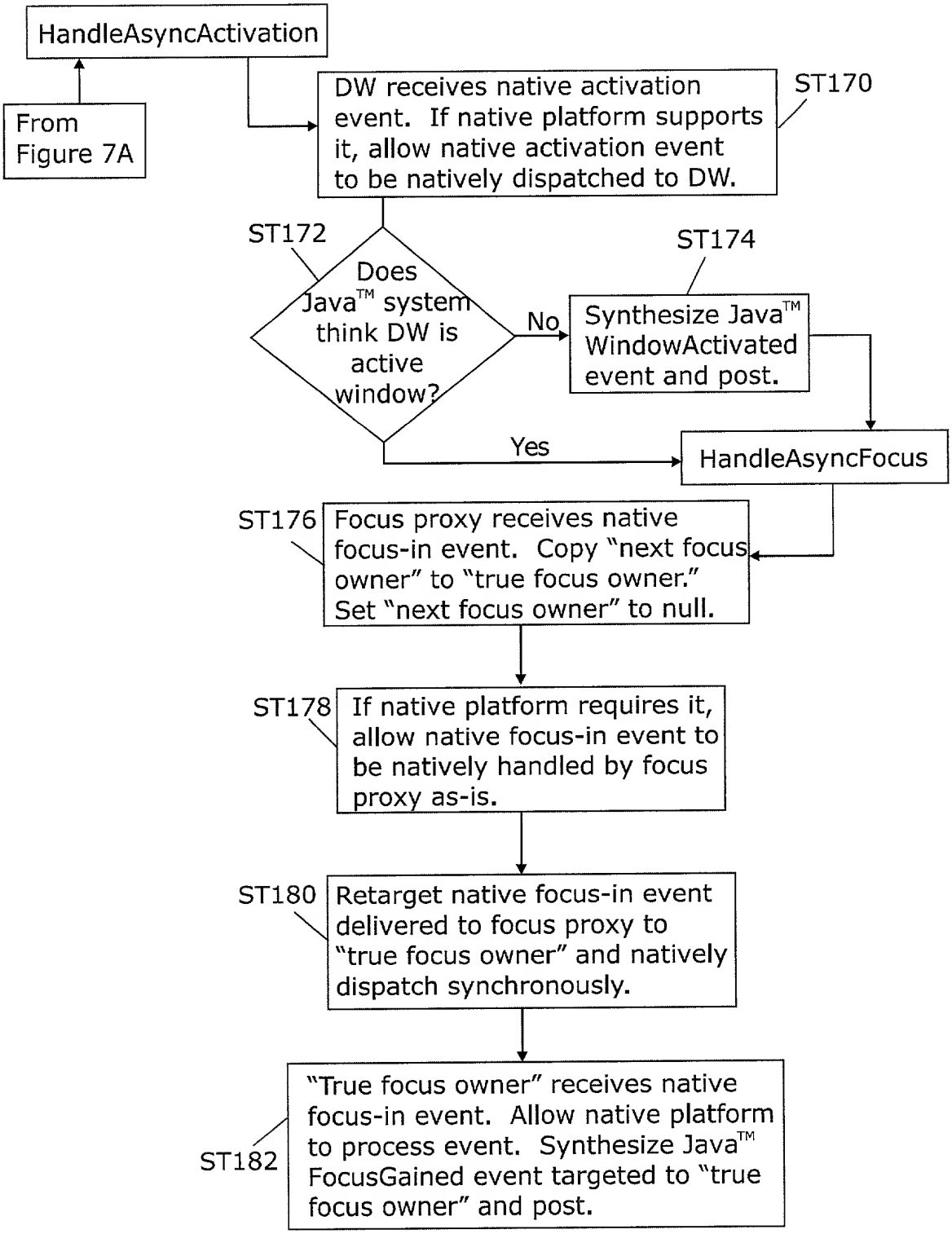

HandleAsyncActivation
From Figure 7A
DW receives native activation event. If native platform supports it, allow native activation event to be natively dispatched to DW.
ST170
ST172
Does Java™ system think DW is active window?
No
ST174
Synthesize Java™ WindowActivated event and post.
Yes
HandleAsyncFocus
ST176
Focus proxy receives native focus-in event. Copy "next focus owner" to "true focus owner." Set "next focus owner" to null.
ST178
If native platform requires it, allow native focus-in event to be natively handled by focus proxy as-is.
ST180
Retarget native focus-in event delivered to focus proxy to "true focus owner" and natively dispatch synchronously.
ST182
"True focus owner" receives native focus-in event. Allow native platform to process event. Synthesize Java™ FocusGained event targeted to "true focus owner" and post.

FIGURE 7B

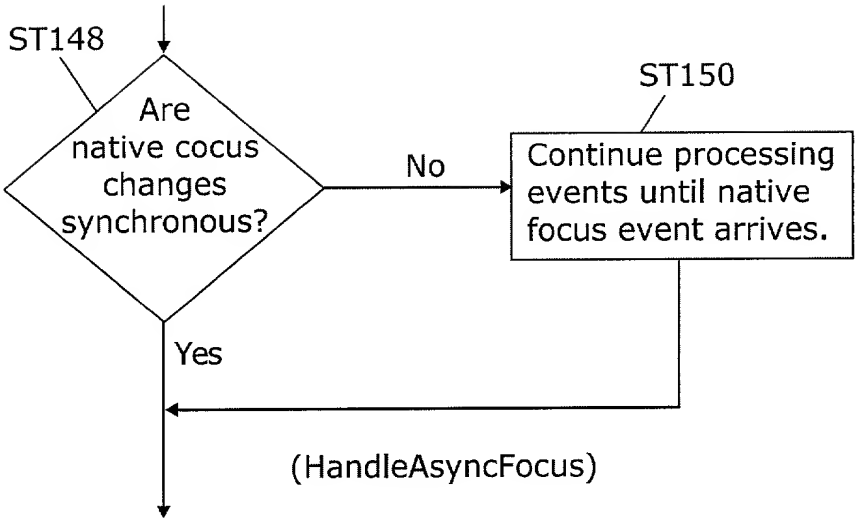


FIGURE 8

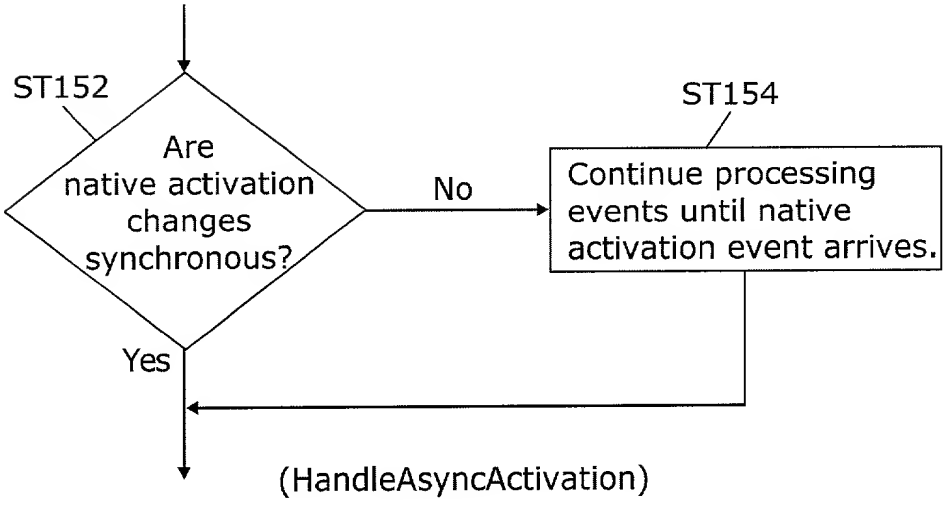


FIGURE 9

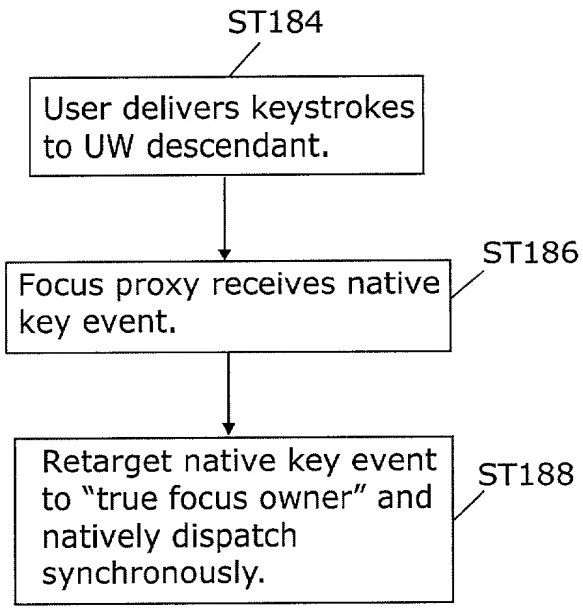


FIGURE 10

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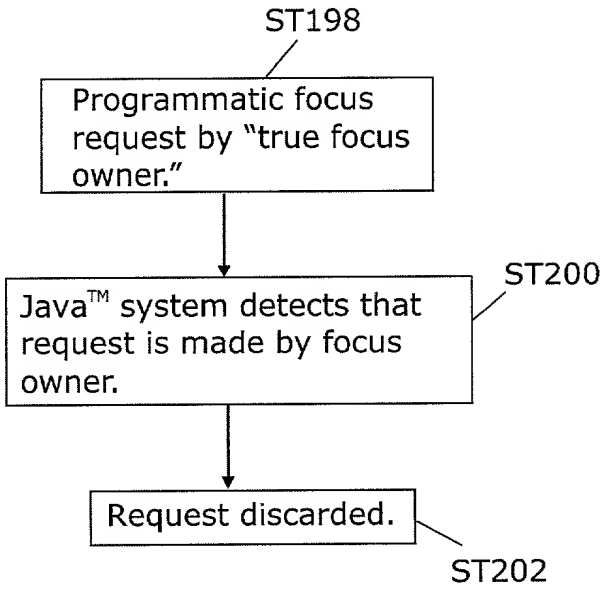

FIGURE 11

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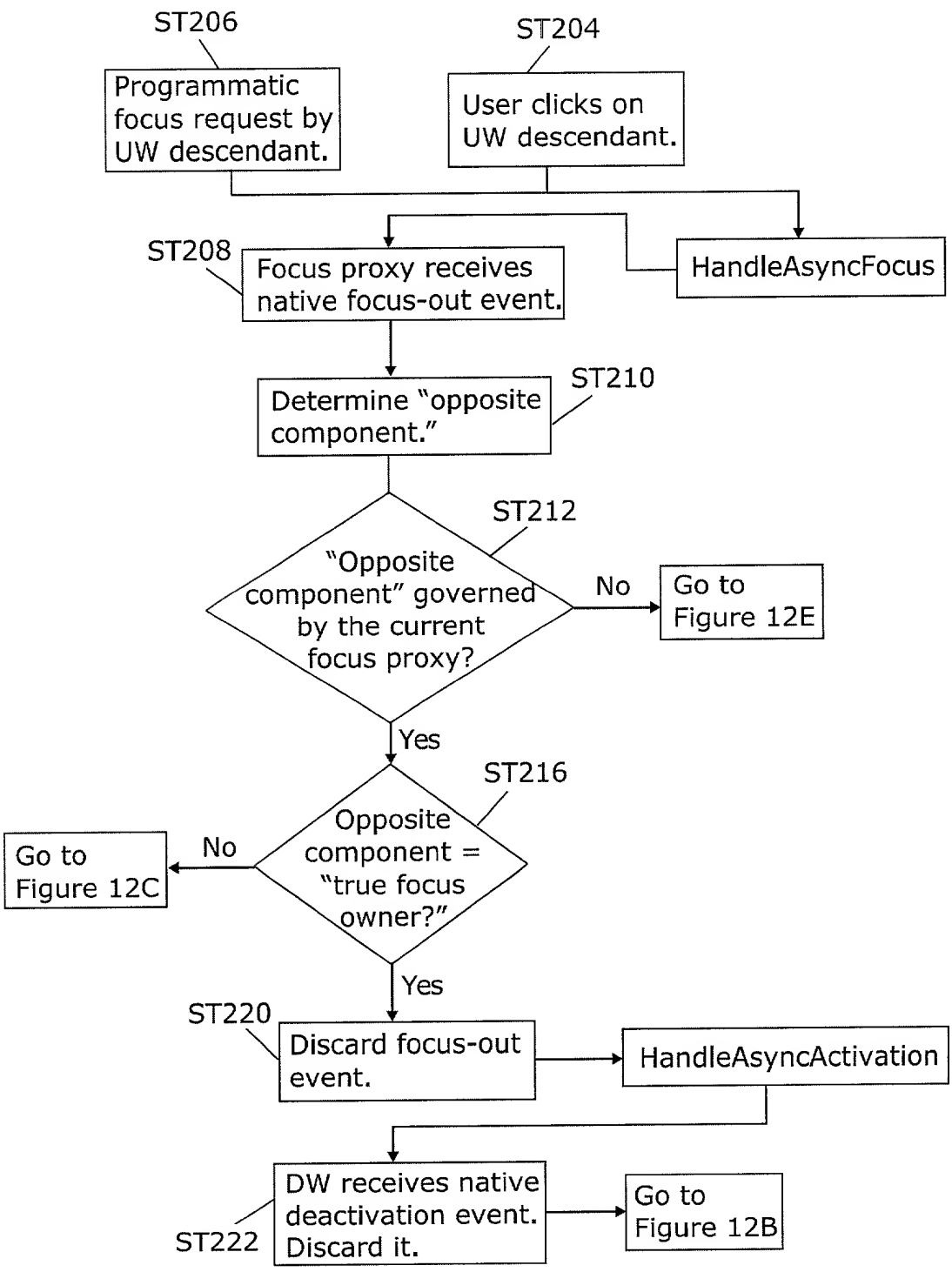
ST206
Programmatic focus request by UW descendant.
ST204
User clicks on UW descendant.
ST208
Focus proxy receives native focus-out event.
HandleAsyncFocus
Determine "opposite component."
ST210
ST212
"Opposite component" governed by the current focus proxy?
No
Go to Figure 12E
Yes
ST216
Opposite component = "true focus owner?"
No
Go to Figure 12C
Yes
ST220
Discard focus-out event.
HandleAsyncActivation
DW receives native deactivation event. Discard it.
ST222
Go to Figure 12B

FIGURE 12A

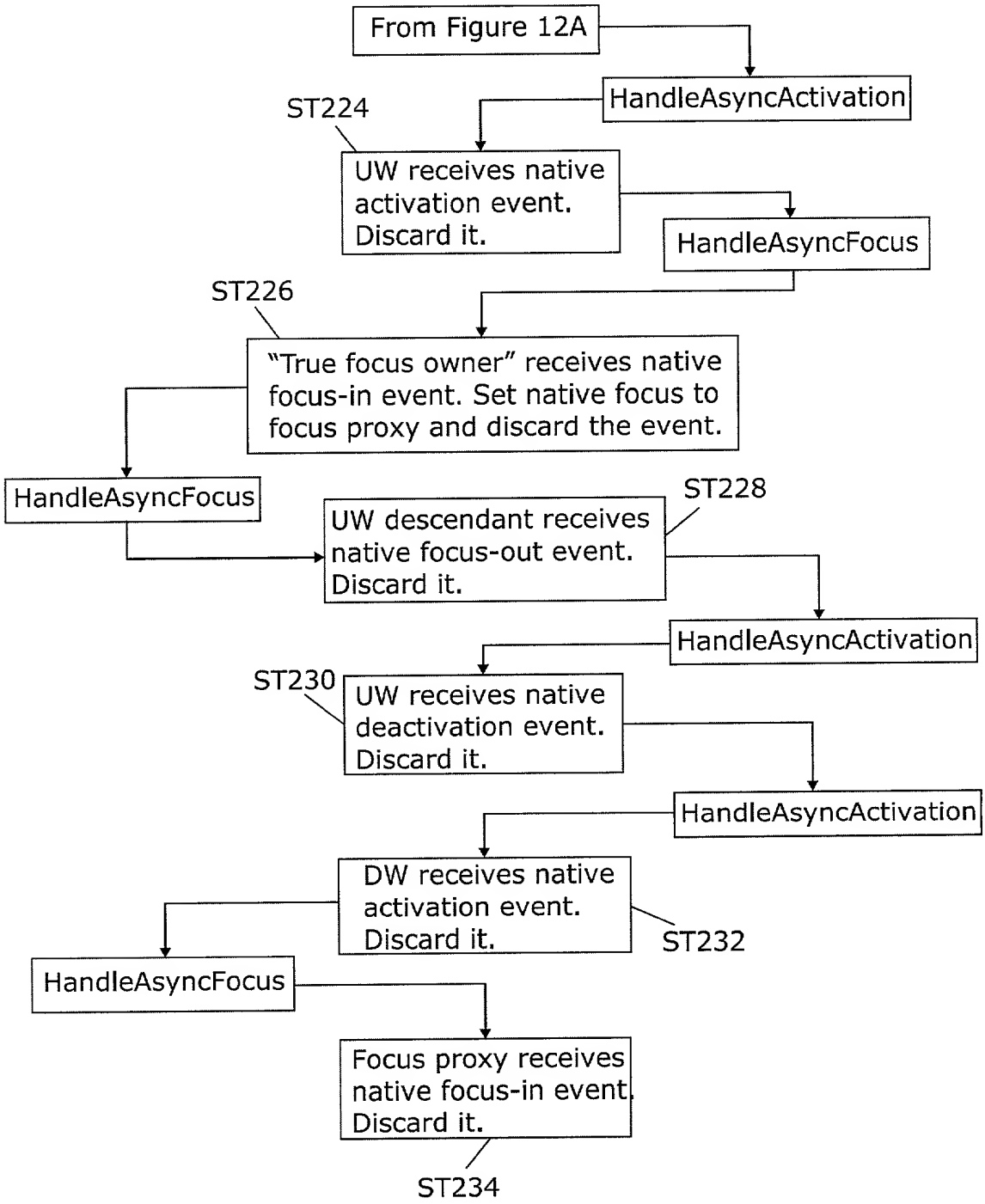
From Figure 12A
HandleAsyncActivation
ST224
UW receives native activation event. Discard it.
HandleAsyncFocus
ST226
"True focus owner" receives native focus-in event. Set native focus to focus proxy and discard the event.
HandleAsyncFocus
ST228
UW descendant receives native focus-out event. Discard it.
HandleAsyncActivation
ST230
UW receives native deactivation event. Discard it.
HandleAsyncActivation
DW receives native activation event. Discard it.
ST232
HandleAsyncFocus
Focus proxy receives native focus-in event. Discard it.
ST234

FIGURE 12B

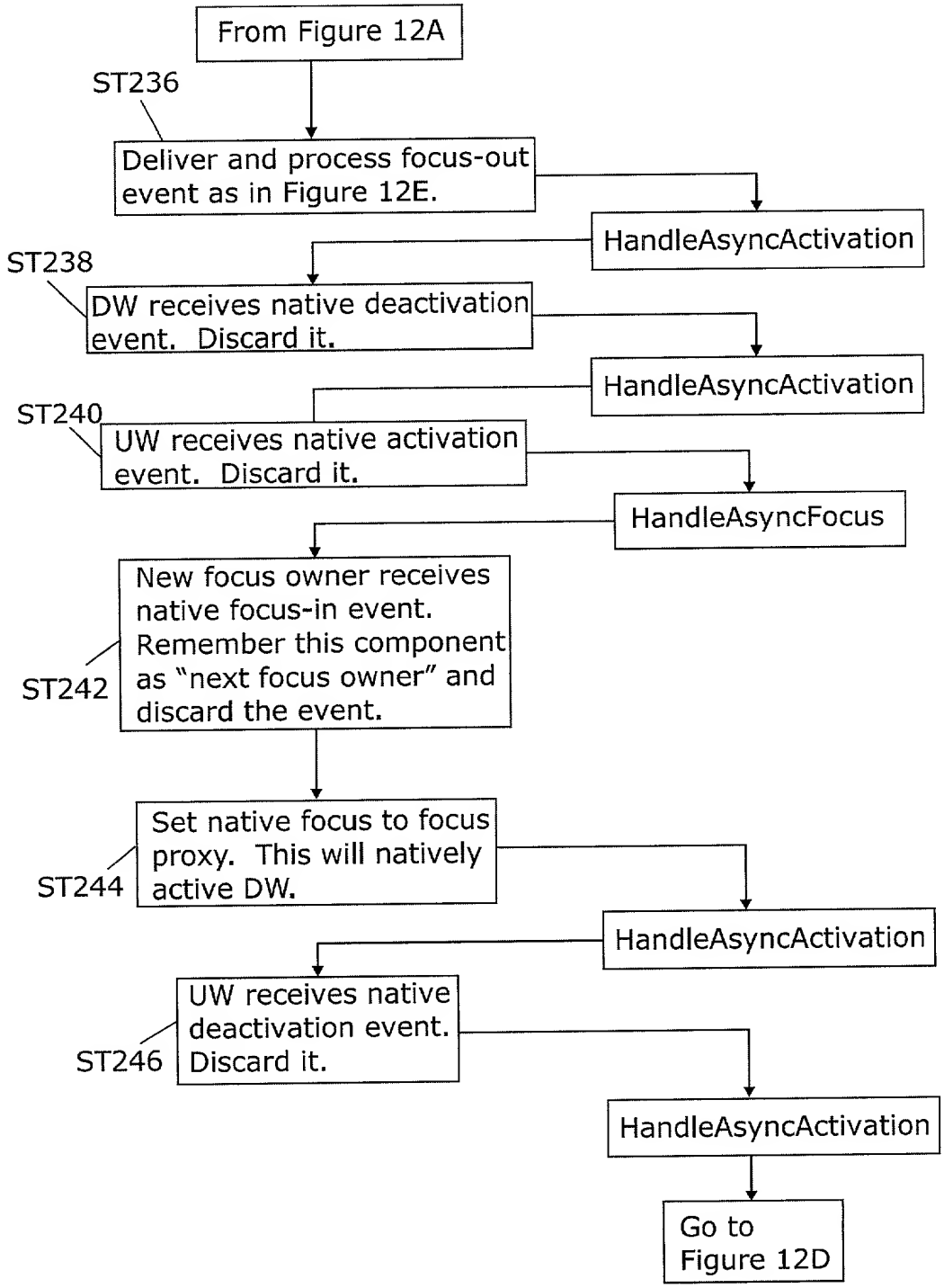
From Figure 12A
ST236
Deliver and process focus-out event as in Figure 12E.
HandleAsyncActivation
ST238
DW receives native deactivation event. Discard it.
HandleAsyncActivation
ST240
UW receives native activation event. Discard it.
HandleAsyncFocus
New focus owner receives native focus-in event. Remember this component as "next focus owner" and discard the event.
ST242
Set native focus to focus proxy. This will natively active DW.
ST244
HandleAsyncActivation
UW receives native deactivation event. Discard it.
ST246
HandleAsyncActivation
Go to Figure 12D

FIGURE 12C

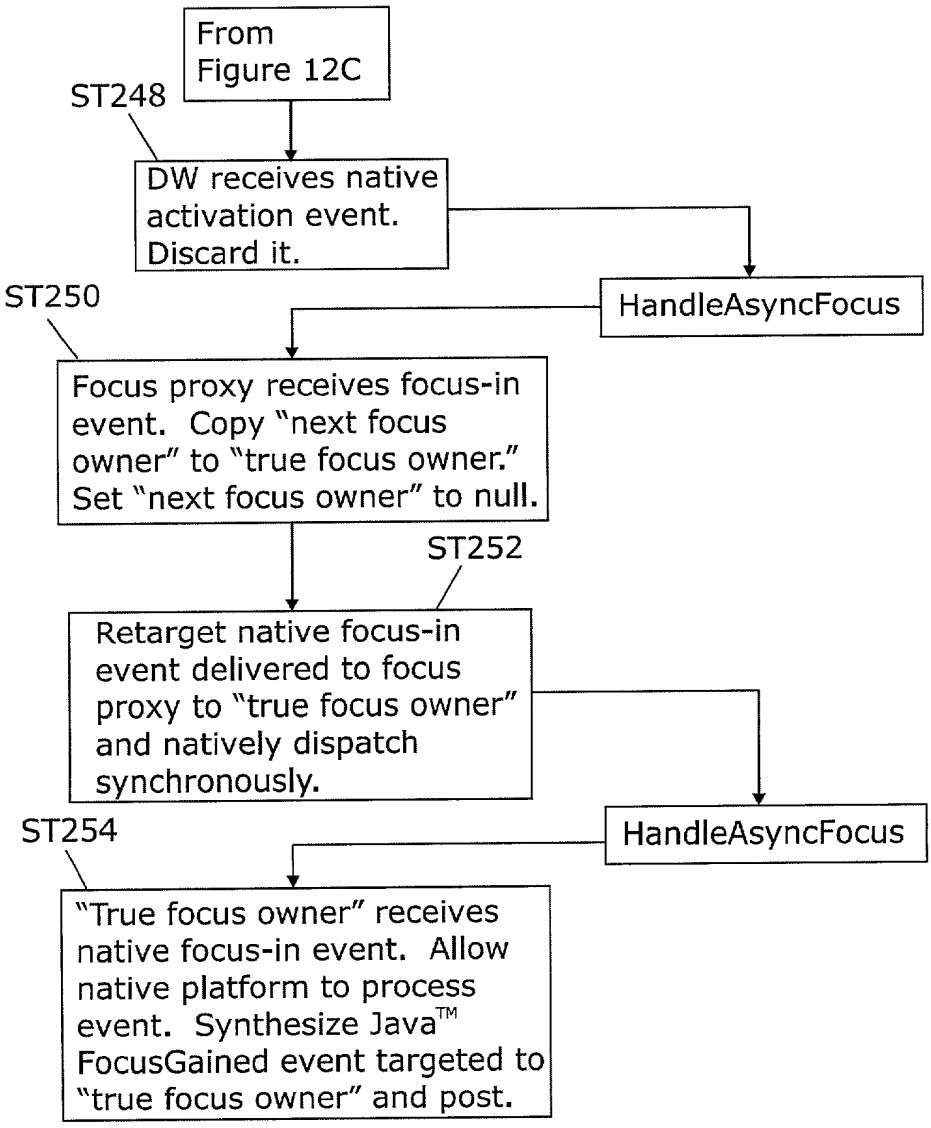
From Figure 12C
ST248
DW receives native activation event. Discard it.
HandleAsyncFocus
ST250
Focus proxy receives focus-in event. Copy "next focus owner" to "true focus owner." Set "next focus owner" to null.
ST252
Retarget native focus-in event delivered to focus proxy to "true focus owner" and natively dispatch synchronously.
HandleAsyncFocus
ST254
"True focus owner" receives native focus-in event. Allow native platform to process event. Synthesize Java™ FocusGained event targeted to "true focus owner" and post.

FIGURE 12D

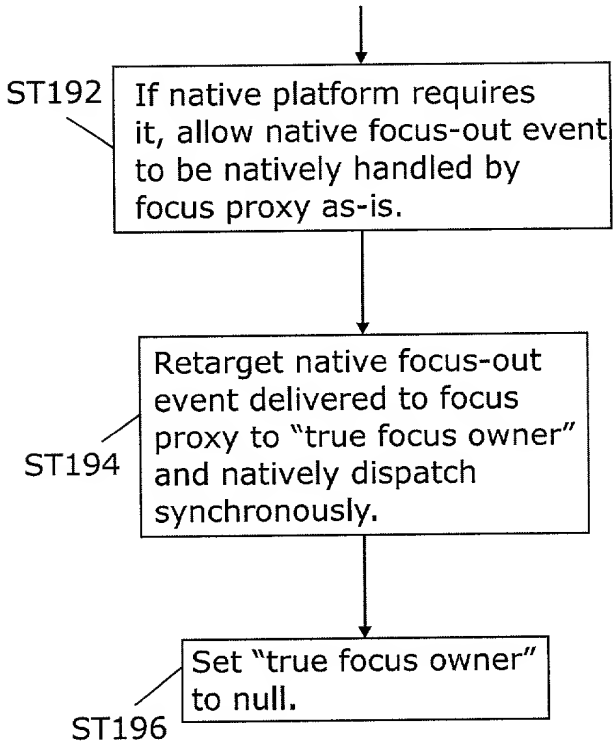

FIGURE 12E

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